Case 01-01139-AMC Doc 14305 Filed 01/15/07 Page 1 of 12

MVA SCIENTIFIC CONSULTANTS Surface Dust Sample Analysis Sheet

				Surface Du) Willer	* \$ \$	0 5 1	
MVA	. Project#				ected(cm ²):			Analyst		
MVA	Sample#	Q1456			pped(cm²):				9/19/05	
	lient I.D.:				vrea (mm²):				1 of 1	
		Philips 420	**************************************		Filter Type:	PC 0.2		Comments		
	nification:			Openings	s Analyzed:	10		ASTM Method:		<u> </u>
Acc.	Voltace:	100 KV		Grid Oper	ning (mm²):	0.008		C)	D5755	<u>X</u>
			······································	•	·					
		Structure	Structure	Lengih**	Width**				Length***	Witth
Grid	Opening	Number*	Tyce	, (cm)	(cm)	SAED	EDS	Comments	<u>(µm)</u>	(µm)
1	13	1	M	28.0	7.00	С	C	EDS	13.6	3.40
		2	C	16.0	1.00	С			7.8	0.49
	J4	3	F	10.5	0.10	С			5.1	0.05
1	H8	4	С	7.0	4.00	C			3.4	1.94
		5	3	6.0	0.30	C	•		2.9	0.15
		6	F	5.0	0.10	C			2.4	0.05
		7	Ċ	5.0	1.50	C			2.4	0.73
		8	M	15.0	9.00	Ĉ			7.3	4,37
		THE PARTY OF THE P	F	21.0	0.10	C			10.2	0.05
	G8	9	<u>General de la companya del la companya de la compa</u>		<u> </u>	}	C	EDS	1.9	0.05
<u></u>		10	<u>F</u>	4.0	0.10	C	<u> </u>	<u> </u>	·	
	D9	11		9.0	1.00	C			4.4	0.49
<u></u>		12	F	13.0	0.10	C			6.3	0.05
		13	M	22.0	12.00	С			10,7	5.83
2	F8	14	F	7.0	0.10	С			3.4	0,05
		15	M	7.0	6,00	C			3.4	2.91
***************************************	C 7	16	F	3,5	0.10	C			1.7	0.05
		17	F	8.0	0.10	C			3.9	0.05
	A6	18	В	11.0	0.80	C			5.3	0.39
		19	F	15.0	0.10	C			7.3	0.05
	C4	NSD	<u> </u>						1	
	E2	20	l F	6.0	0.10	c	C	EDS	2.9	0.05
	+	20	 	1	<u> </u>		<u> </u>		1	
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NFD of NSD = No Fibers Detected or No Structures Detected

Structure Type: B = Bundle, C = Cluster, F = Fiber, M = Matrix

SAED; C = Chrysotile, A = Amphibole

EDS: C = Chrysotile, AM = Amosite, CR = Crocidolite, AC = Actinolite, AN = Anthophylite, TR = Tremolite, N = Non Asbestos

In Screen Measurement

^{***} Calculated Actual Measurement (On Screen Measurement X 10,000/Magnification)

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MVA SCIENTIFIC CONSULTANTS Surface Dust Sample Analysis Sheet

* #1.28	Managarais	6423			ected(cm²):	-		Analyst.	AH	
	Project# Sample#	Q1457			pped(cm²):	1			9/20/05	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Sarripi on . lient I.D.:	Dust 49			rea (mm²):	1256			1 of 2	**************************************
		Philips 420			Filter Type:		Andrew Committee of the	Comments:		······································
	ification:				: Analyzed:	10		ASTM Method:	D5480	
	Voltage:	100 KV			ing (mm²):	0.008		\$	D5755	Х
y 000 000				•						
		Structure	Structure	Length**	Visit **	n. x	and street state	to an anna santa da dadada.	Laryth***	Width***
Grid	Opening	Number	Type	(cm)	(cm)	SAED G	EDS C	Comments EDS	(µm) 1.5	(µm) 0.05
1	86		F	3.0	0.10				1.0	0.05
		2	F	2.0	0.10				0.7	0.05
		3		1.5	0.10	<u> </u>			dermananananananananananananananananananan	p romunicanian
		4	<u></u>	9.2	0.10	<u> </u>			4.4	<u> </u>
		5	<u> </u>	5.0	4.00	C			2.4	1,94
	C4	6	F	3.5	0.10	<u> </u>			1.7	0.05
		7	F	7.0	0.10	C			3.4	0.05
		8	M	13.0	6.00	C			6.3	2.91
		9	F	2.0	0.10	C	<u> </u>	EDS	1.0	0.05
		10	F	11.0	0.10	С			5.3	0.05
		11	C	12.0	3.00	C			5.8	1,45
***********		12	В	15.0	0.30	С			7.3	0.15
	D3	13	F	5.0	0.10	С			2.4	0.05
		14	M	9.0	2,00	С			4.4	0.97
	F5	15	3	8.0	0,30	C			3.9	0.15
		16	F	6.0	0.10	C			2.9	0.05
1		17	F	4,5	0.10	С			2.2	0.05
		18	F	6.0	0.10	C			2.9	0.05
	H7	19	C	5.0	3.00	C			2.4	1.48
	1 1 1 1	20	F	5.0	0.10	C	С	EDS	2.4	0.05
<u> </u>		21	3	5,0	0.30	C			2.9	0.15
2	нз	22	F	3.0	0.10	С			1.5	0.05
		. 23	c	49.0	3.00	Ĉ			23.8	1.48
 		24	Ğ	2.0	0.10	C			1.0	0.05
		25	<u> </u>	16.0	0.30	Ĉ			7.8	0.15
		<u>25</u>	F	11.0	0.10	Č			5.3	0.05
 		<u> </u>	F	22.0	0.10	c			10.7	0.05
	~=	<u>47</u> 28	F	3.0	0.10	Ċ			1.5	0.05
_	G5	<u> </u>	F	3.0	0.10	Ť			1.5	0.05
					8.00	-	C	EDS	5.8	3.88
<u> </u>		30	M	12.0		<u></u>			7.3	5.83
		31	<u> </u>	15.0	12.00	4			***************************************	
<u> </u>	<u>E2</u>	32	<u> </u>	12.0	6.00	<u> </u>			5,8	2,91
		33	M	13.0	10.00	<u> </u>			6.3	4.85
		34	F	4,0	0.10	<u> </u>			1.9	0.05
		35	<u> F</u>	10.0	0.10	<u> </u>	<u> </u>		4.9	0.05

^{*}NFD or NSD = No Fibers Detected or No Structures Detected

Structure Type: B = Bundle, C = Cluster, F = Floer, M = Matrix

SAED: C = Chrysotile, A = Amphibole

EDS: C = Chrysotile, AM = Amosite, CR = Crocidolite, AC = Actinolite, AN = Anthophyllite, TR = Tremolite, N = Non Asbestos

On Screen Measurement

^{*} Calculated Actual Measurement (On Screen Measurement X 10,000/Magnification)

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MVA SCIENTIFIC CONSULTANTS Surface Dust Sample Analysis Sheet

	,	currect made marriages i				
MVA Project#	6423	Amt Collected(cm²):	100	Analyst	AH	
· 1VA Sample#	Q1457	Amt Prepped(cm²):	1	Date:	9/20/05) }
Client I.D.:	Dust 49	Filter Area (mm²):	1256	Page	2 of 2	
Instrument	Philips 420	Filter Type:	PC 0.2	Comments:		
Magnification:	20,600	Openings Analyzed:	10	ASTM Method:	D6480	-
Acc. Voltage:	100 KV	Grid Opening (mm²):	0.008	ar	D5755	X

ACC.	vokaye.	IOUNY		Casa Opes	1818 /121121 \			-		***************************************
A	On puisa	Structure Number*	Structure Type	Length** (cm)	Width** (cm)	SAED	EDS	Comments	Length*** (µm)	Width*** (µm)
Grid	Opening	36	F	2.0	0.10	C			1.0	0.05
	EZ CONT	37	£	45.0	0.10	C			21.8	0.05
	B3	38		6.0	0.10	Č		***************************************	2.9	0.05
	-	wareness and the second	3	10.0	0.40	C			4.9	0.19
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		39	3	9.0	1.50	C	C	EDS	4.4	0.73
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		40	F	2.0	0.10	C			1.0	0.05
***************************************		41	=		0,10	Č			7.8	0.05
		42		16.0	0.10	G		<u> </u>	3.9	0.05
	<u> </u>	43	F	8.0	}	Ċ			7.3	0.97
		44	M	15,0	2.00				5.3	3.88
		45	1/1	11.0	8,00	C			9.3	3.00
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^{*}NFD or NSD = No Fibers Detected or No Structures Detected

Structure Type: B = Bundle, C = Cluster, F = Fiber, M = Matrix

SAED: C = Chrysotile, A = Amphibole

EDS: C = Chrysotille, AM = Amosite, CR = Crocidolite, AC = Actinolite, AN = Anthophyllite, TR = Tremolite, N = Non Asbestos

i Screen Measurement

Calculated Actual Measurement (On Screen Measurement X 10,000/Magnification)

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MVA SCIENTIFIC CONSULTANTS Surface Dust Sample Analysis Sheet

MVA Project#	6423	Amt Collected(cm ²): 0	Analyst:	WH
MVA Sample#	Q1458	Amt Prepped(cm²): N/A	Date	9/20/05
Client I.D.:	Dust 50	Filter Area (mm²): 1256	Page:	1 of 1
instrument:	Philips 120	Filter Type: PC	Comments:	50
Magnification:	24,400	Openings Analyzed: 10	ASTM Method:	SECULIAR PROGRAMMAN
Acc. Voltage:	100 KV	Grid Opening (mm²): 0.008	<u> </u>	D5755 X

Grid	Opening	Structure Number*	Structure Type	Length** (cm)	(cm)	SAED	EDS	Comments	Lengin (µm)	Width*** (µm)
1	l5	NSD								
×	G2	NSD								
	E4	NSD								
	СЗ	NSD								
uu aanaan aa dhaa	B1	NSD								
2	C1	NSD								
CALLACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR C	88	NSD								
	E8	NSD								
***************************************	G10	NSD								
	17	NSD								
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^{*}NFD or NSD = No Fibers Detected or No Structures Detected

Structure Type: B = Bundle, C = Cluster, F = Fiber, M = Metrix

SAED: C = Chrysotile, A = Amphibole

EDS: C = Chrysotile, AM = Amosite, CR = Crocidolite, AC = Actinolite, AN = Anthophylite, TR = Tremolite, N = Non Asbestos

On Screen Measurement

[&]quot; Calculated Actual Measurement (On Screen Measurement X 10,000/Magnification)

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## MVA SCIENTIFIC CONSULTANTS Surface Dust Sample Analysis Sheet

		0011000 0001 0001p10 10101j 010 01101	
MVA Project#	6423	Amt Collected(cm²): 100	Analyst WH
MVA Sample#	Q1459	Amt Prepped(cm²): 1	Date: <u>9/19/05</u>
Client I.D.:	Dust 51	Filter Area (mm²): 1256	Page:1 of 1
instrument.	Philips 120	Filter Type: PC	Comments:1.0
Magnification:	24,400	Openings Analyzed: 10	ASTM Method: D6480
Acc. Voltage:	100 KV	Grid Opening (mm²): 0.008	or D5755 X

Grid	Opening	Structure Number	Structure Type	L5/19/57**	(CTT)	SAED	EDS	Comments	Length*** (um)	(um)
1	J1	NSD								
	Н3	NSD								
	E4	NSD								·
(42.46.07.4	C5	1	3	16.5	3,50	C	C		6.8	1,43
	A1	NSD								
2	87	2	¢	3.0	0.10	C	C		1.2	0.04
	D8	NSD								
	G4	3	F	3.2	0.10	C	C		1.3	0.04
	11	NSD								
	JS	NSD								
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[&]quot;NFD or NSD = No Fibers Detected or No Structures Detected

On Screen Measurement

^{***} Calculated Actual Measurement (On Screen Measurement X 10,000/Magnification)

Structure Type: B = Bundle, C = Cluster, F = Fiber, M = Matrix

SAED: C = Chrysotile, A = Amphibole

EDS: C = Chrysotile, AM = Amosite, CR = Crodidolite, AC = Actinolite, AN = Anthophylite, TR = Tremolite, N = Non Asbestos

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## MVA SCIENTIFIC CONSULTANTS Surface Dust Sample Analysis Sheet

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MVA Project#	5423	Amt Collected(cm ² );	100	Analyst WH	
*IVA Sample#	Q1460	Amt Prepped(cm ² ):	1.0	Date: 9/19/05	
Client I.D.:	Dust 52	Filter Area (mm²): 12	256	Page: 1 of 1	
Instrument:	Philips 120	Filter Type:	PC Ca	mments: 1.0 mi	
Magnification:	24,400	Openings Analyzed:	10 ASTN	Method: D6480	
Acc. Voltage:	100 KV	Grid Opening (mm²): 0.0		or D5755	X

<i>m.</i>	<b>A.</b>	Structure	Structure	Longin**	Width**	20, 20			Length***	Wath***
Grid	Opening	Number*	Type	(cm)	(cm)	SAED	EDS	Comments	(um)	(µm)
1	H9	1	E	3.0	0.10	<u> </u>	C		12	0.04
	D4	2	M	3.5	0.10	C	C		1,4	0.04
	C1	NSD								
	85	NSD								
	F1	3	F	1.5	0.10	C	C		0.6	0.04
2	E1	NSD								400 Miles
	<b>D</b> 7	4	<u></u>	3.5	0.10	C	C		1.4	0.04
		5	M	2.1	0.10	C	C		0.9	0.04
	E9	6	F	3.6	0.10	c	С	***************************************	1.5	0.04
	H10	NSD				<del>l</del>	<del></del>		trii i	****
	16	NSD				<b>1</b>				<del></del>
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^{*}MFD or NSD = No Fibers Detected or No Structures Detected

Structure Type: B = Bundle, C = Cluster, F = Fiber, M = Matrix

SAED: C = Chrysotille, A = Amphibole

EDS: C = Chrysotile, AM = Amostis, CR = Crocidolite, AC = Actinolite, AN = Anthophylite, TR = Tremolite, N = Non Asbestos

n Screen Measurement

^{***} Calculated Actual Measurement (On Screen Measurement X 10,000/Magnification)

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# MVA SCIENTIFIC CONSULTANTS Surface Dust Sample Analysis Sheet

MVA Project#	6423	Amt Collected(cm ² ):	100	Analyst:	WH
4VA Sample#	Q1461	Amit Prepped(cm²):	1.0	Date	9/20/05
Client I.D.:	Dust 53	Filter Area (mm²):	1256	Paga:	1 of 1
Instrument.	Philips 120	Filter Type:	PO	Comments:	1.0
Magnification:	24,400	Openings Analyzed:	10	ASTM Method:	D6480
Acc. Voltage:	100 KV	Grid Opening (mm²):	0.008	or	D5755 X

		Structure	Structure	Length**	Width**				Length***	
Grid	Opening	Number*	Type	(5711)	(cm)	SAED	eds	Comments	(µm)	(µm)
11	H6	NSD								
	F2	1	8	2.0	0.20	C	C		0.8	0.08
	C8	2	F	1.8	0.10	C	<u> </u>		0.7	0.04
	84	NSD								
	A1	NSD								
2	A4	NSD								
	C5	3	M	12.2	0.10	C	C		5.0	0.04
		4	3	3.2	0.50	G	Ç		1.3	0.20
		5	M	12.5	0.10	C	С		5.1	0.04
	F3	6	F	16.5	0.10	C	C		6.8	0.04
		7	F	3.0	0.10	C	C	-	1.2	0.04
	<b>G</b> 5	8	M	28.5	0.20	C	C		11.7	0.08
	J6	9	F	5,4	0,10	C	С		2.2	0.04
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^{*}NFO or NSD = No Fibers Detected or No Structures Detected

Structure Type: B = Bundle, C = Cluster, F = Fiber, M = Matrix

SAED: C = Chrysotile, A = Amphibole

EDS: C = Chrysotile, AM = Amosite, CR = Crocidolite, AC = Actinolite, AN = Anthophyllite, TR = Tremolite, N = Non Asbestos

i Screen Measurement

^{***} Calculated Actual Measurement (On Screen Measurement X 10,000/Magnification)

## APPENDIX C

# MVA, INC. LABORATORY REPORT FOR DEBRIS SAMPLES

Report of Results: MVA 6423

Arizona Building Dust Debris Report

Prepared for:

Compass Environmental Inc. 1751 McCollum Parkway Kennesaw, GA 30144

Respectfully Submitted by:

James R. Millette, Ph.D. Executive Director

MVA Scientific Consultants 3300 Breckinridge Boulevard Suite 400 Duluth, GA 30096

21 October 2005



Report of Results: MVA 6423

#### Arizona Building Dust

#### INTRODUCTION

This report contains the results of analytical work performed on debris samples received at MVA Scientific Consultants' laboratory on 23 August 2005 via Federal Express. It was requested that MVA Scientific Consultants perform analysis by polarized light microscopy (PLM) for asbestos. The analyses were performed during the period 29 September through 03 October 2005.

Table 1. Sample Information

Field		
Sample #	MVA ID#	Description
		Civic Plaza: Exhibit Hall A, Column A3, inside column enclosure
	99	at base of enclosure, fireproofing debris, tan with visible
Debris 01	Q1462	vermiculite
		Civic Plaza: Exhibit Hall A, Column A2, inside column enclosure
		at base of enclosure, fireproofing debris, tan with visible
<u>Debris 02</u>	Q1463	vermiculite
	. A Sandanani wa sana ma	Civic Plaza: Exhibit Hall A, Column B6, inside column enclosure
		at base of enclosure, fireproofing debris, tan with visible
Debris 03	Q1464	vermiculite
		General Services Building: SW room (Pharmacy), door # 26,
		acoustical plaster debris on top of two metal file cabinets in office
		area, tan particles, <1cm in diameter (2mm typically) visible
Debris 101	01465	vermiculite in debris
		General Services Building: SW room (Pharmacy), door # 26,
Debris 102	01466	acoustical plaster debris on blue low nap carpet
		General Services Building: SW room (Pharmacy), door # 26,
		acoustical plaster debris in three pharmaceutical (drug) storage
Debris 103	01467	bins
defen utter eine state i den sen	STATE OF THE PARTY	

#### **METHODS & EQUIPMENT**

The material in the debris samples was characterized by stereobinocular microscopy (SBM) and polarized light microscopy (PLM). The PLM analysis was done utilizing an Olympus BH-2 polarized light microscope having a magnification range from 40X to 1000X.

#### **RESULTS**

By light microscopy, Sample 6423Q1462 (Debris 01) is composed of approximately 50% gypsum and limestone, 35% vermiculite, 15% chrysotile asbestos, and trace amounts of cellulose fibers, magnetite and quartz.

By light microscopy, Sample 6423Q1463 (Debris 02) is composed of approximately 50% gypsum and limestone, 35% vermiculite, 15% chrysotile asbestos and trace amounts of synthetic fibers, magnetite, and quartz.

By light microscopy, Sample 6423Q1464 (Debris 03) is composed of approximately 48% gypsum, limestone/precipitated carbonate, 35% vermiculite, 15% chrysotile asbestos, and trace/minor amounts of magnetite and quartz, and trace amounts of asbestiform tremolite/actinolite.

By light microscopy, Sample 6423Q1465 (Debris 101) is composed of approximately 80% vermiculite and possible montmorillonite clay (not confirmed by light microscopy), 10% chrysotile asbestos, 10% gypsum and trace amounts of magnetite and quartz.

By light microscopy, Sample 6423Q1466 (Debris 102) is composed of approximately 65% vermiculite, 15% gypsum, 10% chrysotile asbestos, 10% montmorillonite clay and trace amounts of limestone and magnetite.

By light microscopy, Sample 6423Q1467 (Debris 103) is composed of approximately 65% vermiculite, 15% gypsum, 10% chrysotile asbestos, 10% montmorillonite clay and trace amounts of limestone/precipitated carbonate, magnetite and quartz.

Photographs of representative particles taken with SBM and PLM are shown in Figures 1 through 5.

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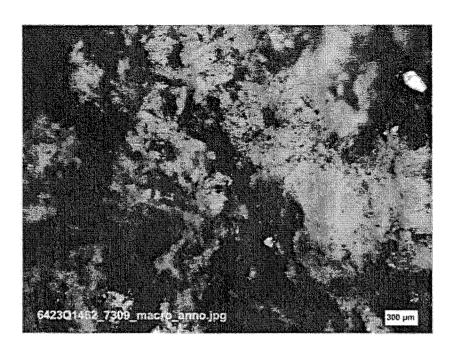


Figure 1. SBM image of sample 6423Q1462 (Debris 01).

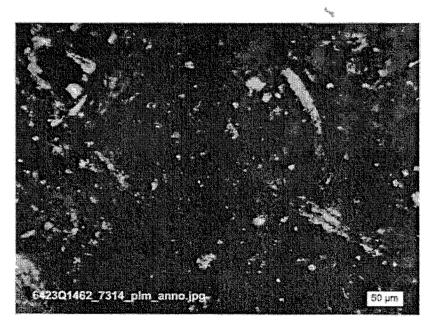


Figure 2. PLM image of sample 6423Q1462 (Debris 01).